THAT WHICH IS CLAIMED:

1. A solution for perfusing and storing a heart while awaiting transplantation comprising:

    (a) a balanced isotonic solution in a physiologically acceptable amount;

5   (b) a cyclosporin; and

    (c) water.

2. The solution according to Claim 1 wherein said balanced isotonic solution includes sodium, potassium, calcium, magnesium ions and bicarbonate.

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3. The solution according to Claim 1 wherein said cyclosporin is present in an amount from about 2.5 μM to about 10 μM per liter of solution.

4. The solution according to Claim 1 wherein said cyclosporin is

15 present in an amount from about 5.0 μM to about 8.0 μM per liter of solution.

5. The solution according to Claim 1 wherein said balanced isotonic solution comprises:

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Concentration Ranges in 1 Liter	
NaCl	85 mM to 145 mM
KCl	3 mM to 50 mM
$CaCl_2$	0.5 mM to 2.5 mM
KH_2PO_4	0.7 mM to 1.3 mM
$MgSO_4$	0.9 mM to 4.8 mM
$NaHCO_3$	15 mM to 35 mM
Glucose	1.0 mM to 50 mM

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and said cyclosporin is present in an amount from about 2.5 μM to about 10 μM per liter of solution.

6. A method for preserving hearts which extends the life of the heart during transplantation comprising:

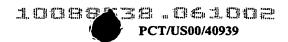perfusing and storing a heart with a solution comprising:

(a) a balanced isotonic solution in a physiologically acceptable amount;

(b) cyclosporin; and

(c) water.

7. The method according to Claim 6 wherein said balanced isotonic solution includes sodium, potassium, calcium, magnesium ions and bicarbonate.

8. The method according to Claim 6 wherein said cyclosporin is present in an amount from about 2.5 μM to about 10 μM per liter of solution.

9. The method according to Claim 6 wherein said cyclosporin is present in an amount from about 5.0 μM to about 8.0 μM per liter of solution.

10. The method according to Claim 6 wherein said balanced isotonic solution comprises:

Concentration Ranges in 1 Liter	
NaCl	85 mM to 145 mM
KCl	3 mM to 50 mM
$CaCl_2$	0.5 mM to 2.5 mM
KH_2PO_4	0.7 mM to 1.3 mM
$MgSO_4$	0.9 mM to 4.8 mM
$NaHCO_3$	15 mM to 35 mM
Glucose	1.0 mM to 50 mM

and said cyclosporin is present in an amount from about 2.5 μM to about 10 μM per liter of solution.